Ford Escape Advanced Research Fleet

Number of vehicles:	20	Date range of data received:	01/01/2012 to 10/31/2012
Reporting period:	January 12 - October 12	Number of vehicle days driven:	2,670

All Trips Combined

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi)[1]	107
Overall DC electrical energy consumption (DC Wh/mi)[2]	74
Total number of trips	14,233
Total distance traveled (mi)	159,409

Trips in Charge Depleting (CD) mode[3]

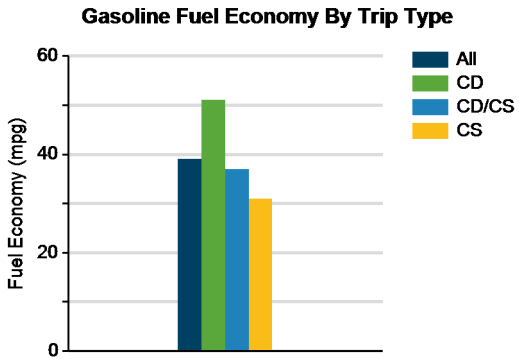
Gasoline fuel economy (mpg)	51
DC electrical energy consumption (DC Wh/mi)[4]	157
Number of trips	8,676
Percent of trips city | highway	81% | 20%
Distance traveled (mi)	53,821
Percent of total distance traveled	34%

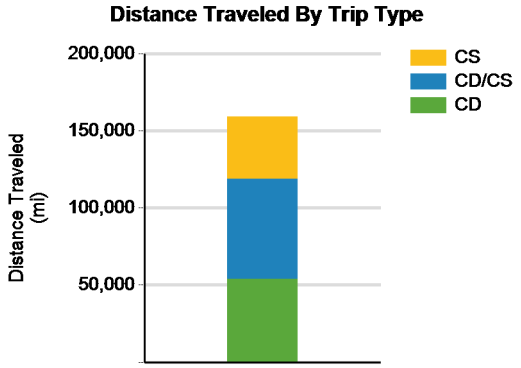
Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes[5]

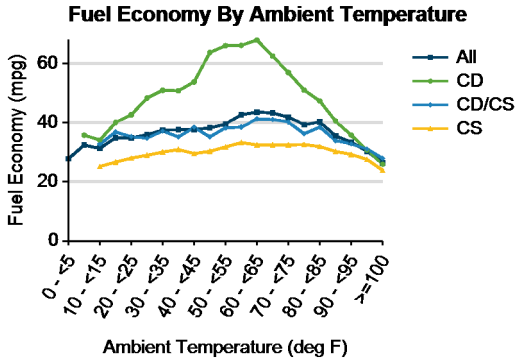
Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi)[6]	56
Number of trips	2,588
Percent of trips city | highway	37% | 63%
Distance traveled (mi)	65,276
Percent of total distance traveled	41%

Trips in Charge Sustaining (CS) mode[7]

Gasoline fuel economy (mpg)	31
Number of trips	2,968
Percent of trips city | highway	65% | 35%
Distance traveled (mi)	40,312
Percent of total distance traveled	25%







Notes: 1 - 7. Please see http://avt.inl.gov/pdf/phev/fordreportnotes.pdf for an explanation of all PHEV Fleet Testing Report notes.

Since these vehicles are flex-fuel capable, some driving events are conducted with E-85, which may decrease fuel economy results

"The Ford Escape Advanced Research Fleet was designed as a demonstration of customer duty cycles related to plug-in electric vehicles. The vehicles used in this demonstration have not been optimized to provide the maximum potential fuel economy."

Trips in Charge Depleting (CD) mode

	City	Highway
Gasoline fuel economy (mpg)	45	58
DC electrical energy consumption (DC Wh/mi)	144	167
Percent of miles with internal combustion engine off	31%	10%
Average trip driving intensity (Wh/mi)	287	324
Average trip distance (mi)	4	17

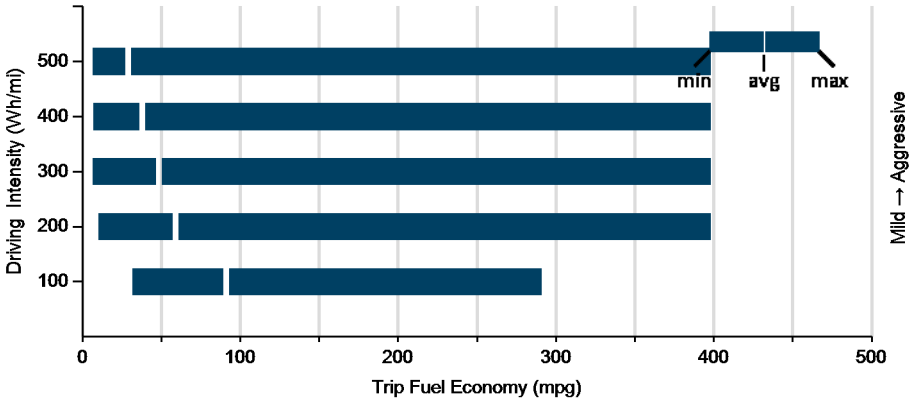
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	43	37
DC electrical energy consumption (DC Wh/mi)	75	53
Percent of miles with internal combustion engine off	28%	6%
Average trip driving intensity (Wh/mi)	287	341
Average trip distance (mi)	9	35

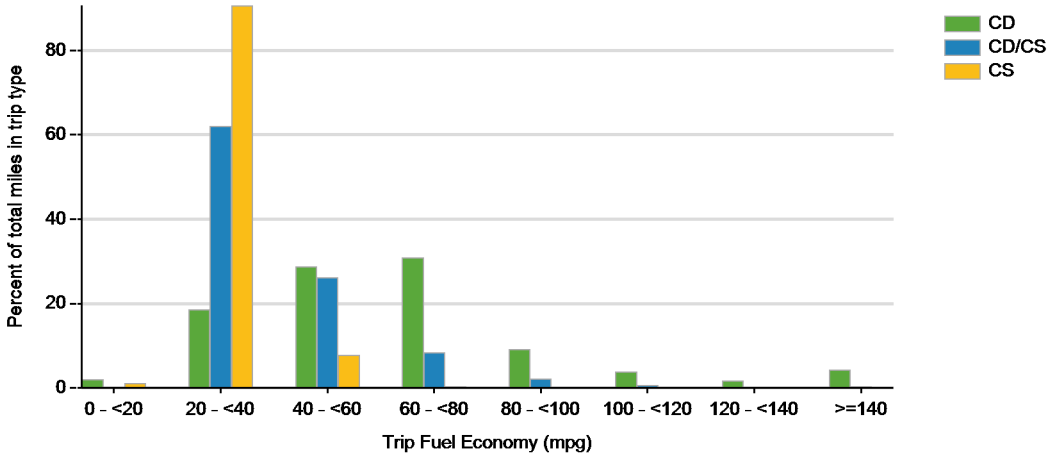
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	30	31
Percent of miles with internal combustion engine off	24%	4%
Average trip driving intensity (Wh/mi)	284	338
Average trip distance (mi)	3	33

Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



Trip Fuel Economy Distribution By Trip Type



Plug-in charging

Average number of charging events per vehicle per month when driven	32
Average number of charging events per vehicle per day when driven	2.1
Average distance driven between charging events (mi)	28.2
Average number of trips between charging events	2.5
Average time plugged in per charging event (hr)	6.2
Average time charging per charging event (hr)	2.2
Average energy per charging event (AC kWh)	3.0
Average charging energy per vehicle per month (AC kWh)	95.7
Total number of charging events	5,654
Total charging energy (AC kWh)	17,036